## **CLAIMS**

## What is claimed is:

- 1. A method of fabricating an axle beam comprising the steps of:
- a) bending a plate having a varied cross-section to form an enclosed shape with first and second segments abutting each other; and
  - b) joining the first and second segments to each other.
- 2. The method as recited in claim 1, wherein step a) comprises deforming the plate into a stepped cross-section from a plate having a uniform cross-section.
- 3. The method as recited in claim 2, wherein the plate includes a length and a width, the length greater than the width and the stepped cross-section extends longitudinally along the plate.
- 4. The method as recited in claim 3, wherein said step a) comprises bending the plate laterally such that longitudinal edges of the plate abut forming the enclosed shape.
- 5. The method as recited in claim 1, comprising attaching end assemblies to distal segments of the axle beam.
- 6. The method as recited in claim 1, wherein the first and second segments are of a common thickness.

- 7. The method as recited in claim 1, comprising third and forth segments having a thickness less than the first and second segments.
- 8. The method as recited in claim 1, wherein the enclosed shape includes first and second side sections, and top and bottom sections, the top and bottom sections being of a greater thickness than the first and second side sections.
- 9. The method as recited in claim 8, comprising abutting the first and second segments to form one of the top and bottom sections.
- 10. The method as recited in claim 8, comprising abutting the first and second segments to form one of the first and second side sections.

## 11. An axle assembly comprising:

an axle beam comprising a lateral cross-section having at least three sections forming an enclosed shape, and at least one of said at least three sections comprising a first thickness, and another section comprising a second thickness different than said first thickness; and

an end assembly disposed at distal segments of said axle beam;

- 12. The assembly as recited in claim 11, wherein said lateral cross-section comprises top and bottom sections having said first thickness, and first and second side sections having said second thickness.
- 13. The assembly as recited in claim 12, wherein said top and bottom sections, and said first and second side sections extend longitudinally along said axle beam.
- 14. The assembly as recited in claim 11, wherein said axle beam comprises an enclosed shape
- 15. The assembly as recited in claim 11, wherein said axle beam comprises a single sheet of material.

- 16. The assembly as recited in claim 15, wherein said sheet of material comprises first and second longitudinal segments abutted against one another to form an enclosed shape.
- 17. The assembly as recited in claim 11, wherein said end assembly comprises a king pin boss for supporting a vehicle wheel.